CCACC ATIG GCT CTIG CAG ATIC CCC AGC CTIC CTIC TICA GCT GCT GTIG GTIG GTIG ATIG GTIG CTIG AGC AGC ACA AGG 足 Д ß ß П > × B CHAIN SIGNAL PEPTIDE Ы > > > Ø ď ល Ы Ы വ Д Н Q Н ø CONSENSUS **KOZAK** L

ACC TITA AGT ATC ITCT C'AG GCT GITT C'AC GCT GCT C'AC GCT GAA ATC AAC G'AA GCT GGT CGT 323-339 PEPTIDE 团 闰 OVA ď Ħ 耳 Q Ø ល

GCT AGC GGA GGG GGC GGA AGC GGC GGA GGG GGA AAC TCC GAA AGG // AGC CCC ATC ACT GTG GAG TGG E W β1-β2 DOMAINS Н Д ល IAd 24 闰 ល N | aa1 Ü ひ PEPTIDE LINKER Ö ល ט Ö U Ō Ø d

TCT GGC GGT GGC GGT TCC TCG AGT Ŋ Ŋ ß O Ö Ö ט ល ACT AGT GGT GGC GGT GGC AGC GGC GGT GGT TCC GGT GGC GGC GGT ט G S G G G G SINGLE CHAIN LINKER ರ ט ט Ü ט Ø Ö Ö Ö Q ល

GAA GAC GAC AIT // CCA GGG CCT TTA TGA

E D D I // P G P L STOP

FIG.

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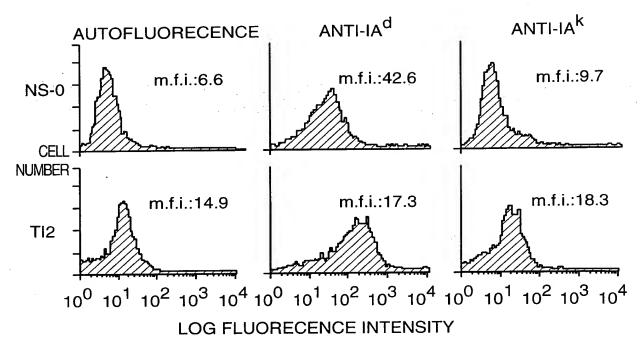


FIG. 2A

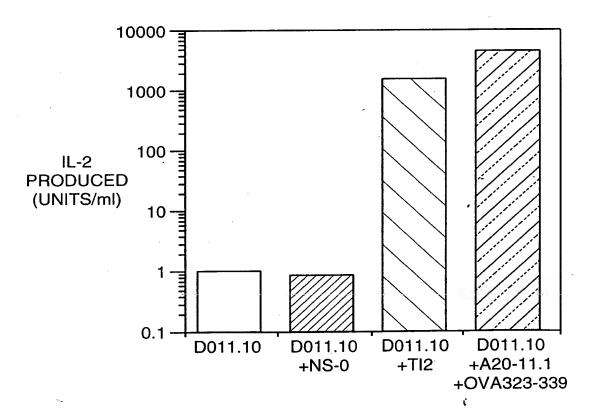
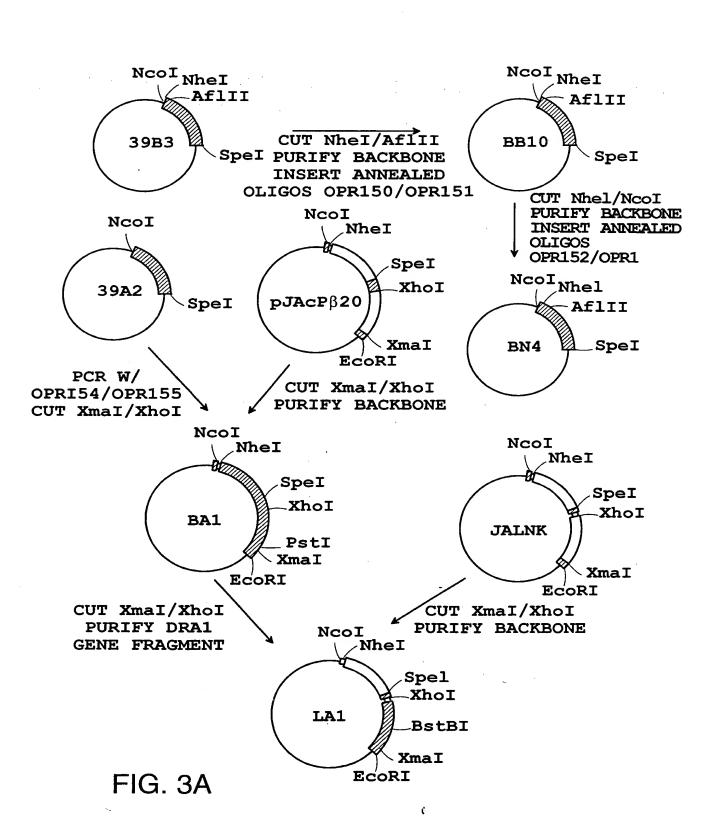


FIG. 2B



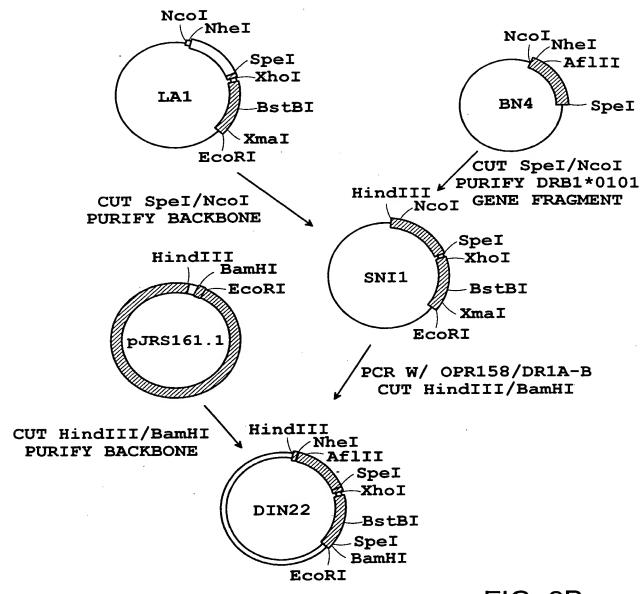


FIG. 3B

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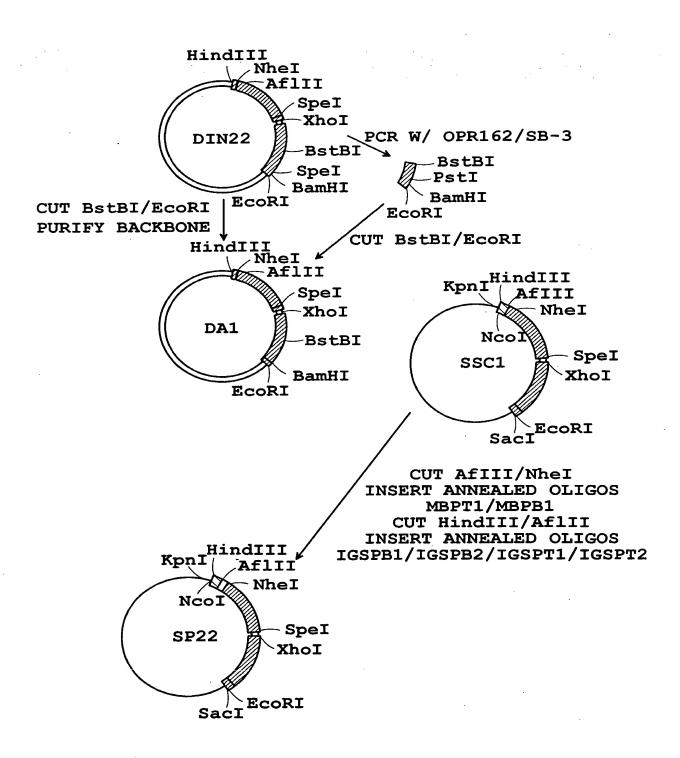


FIG. 3C

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J.G. FIG.

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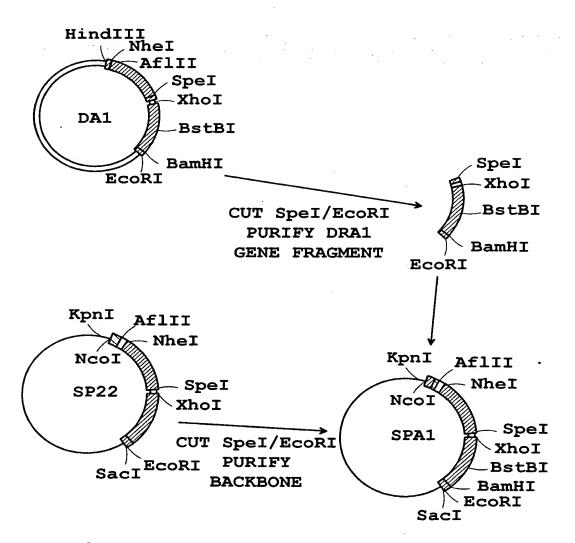


FIG. 3D

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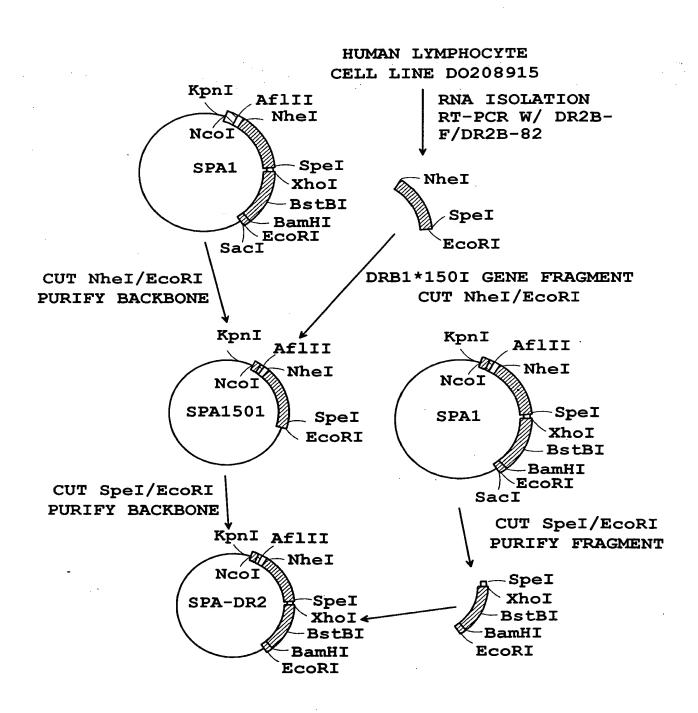


FIG. 3E

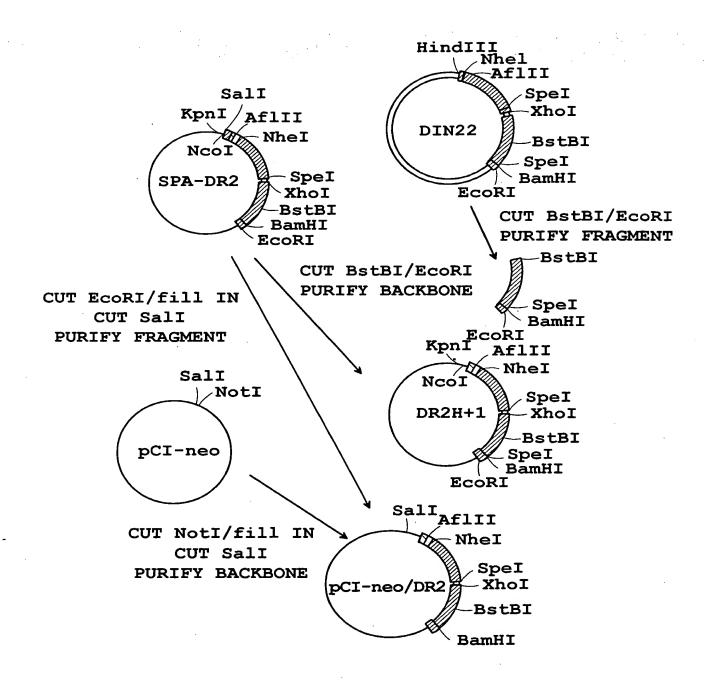


FIG. 3F

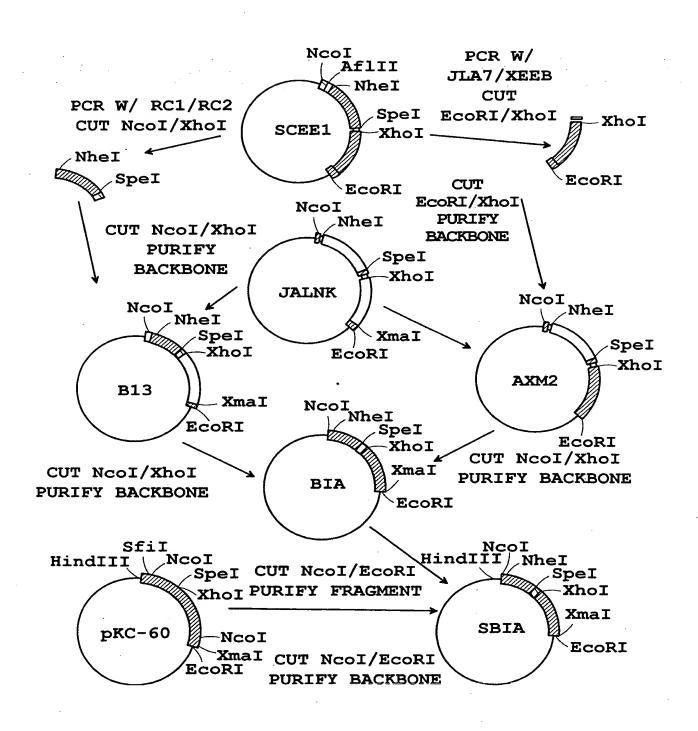


FIG. 3G

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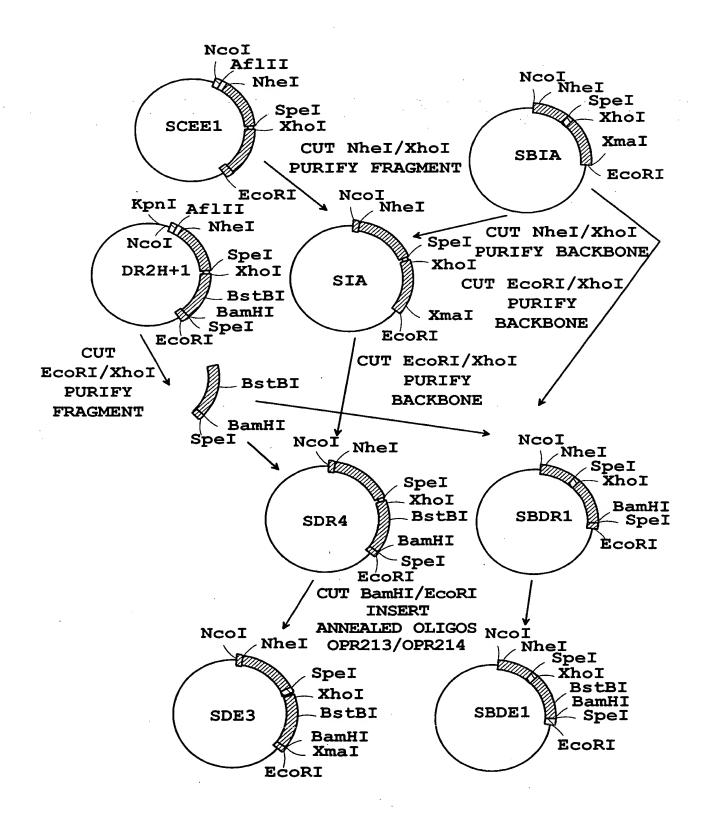


FIG. 3H

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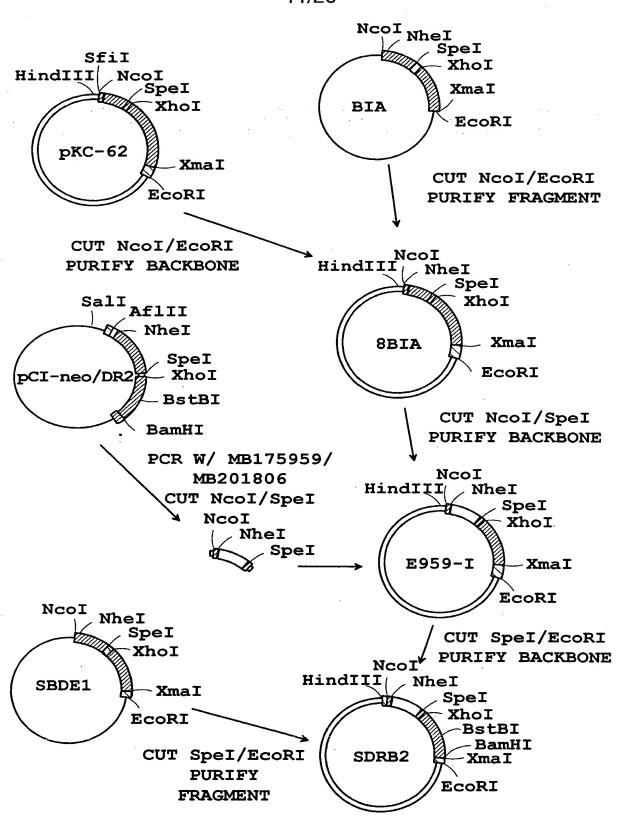
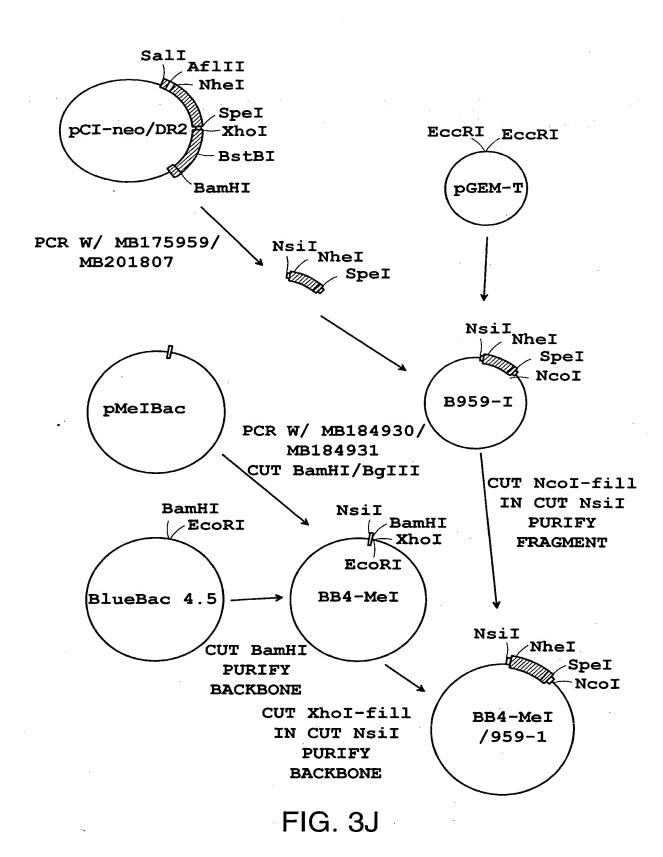


FIG. 31

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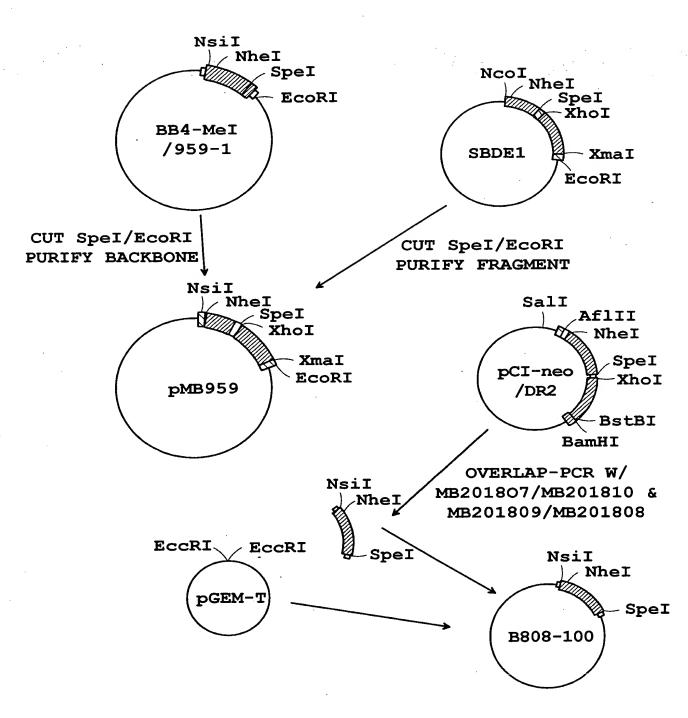
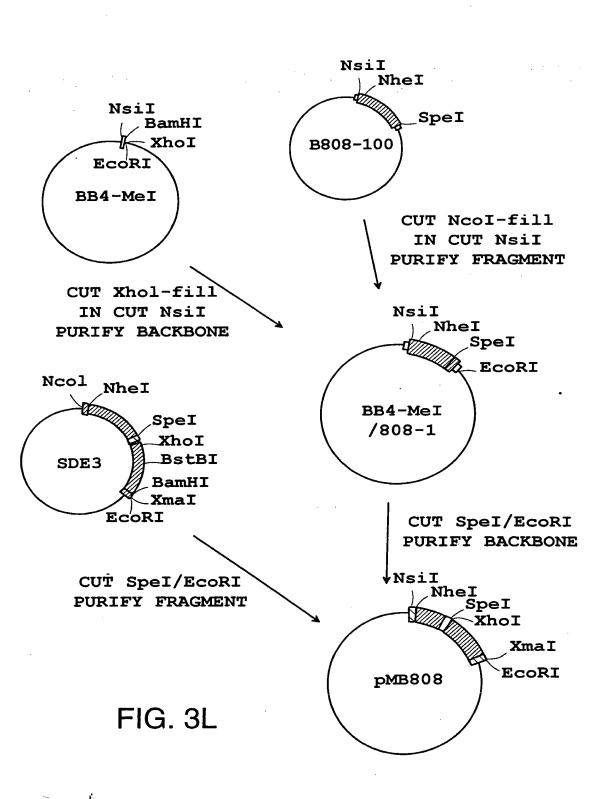
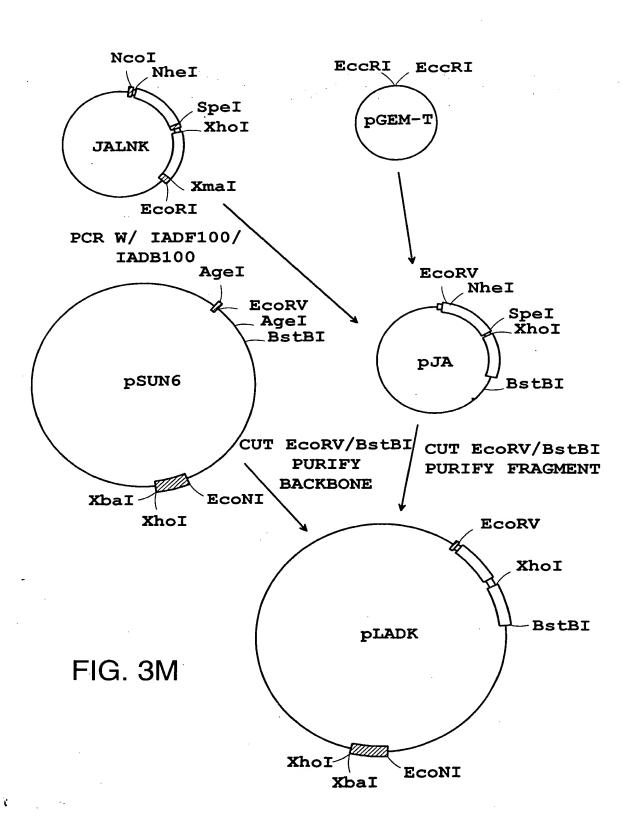


FIG. 3K

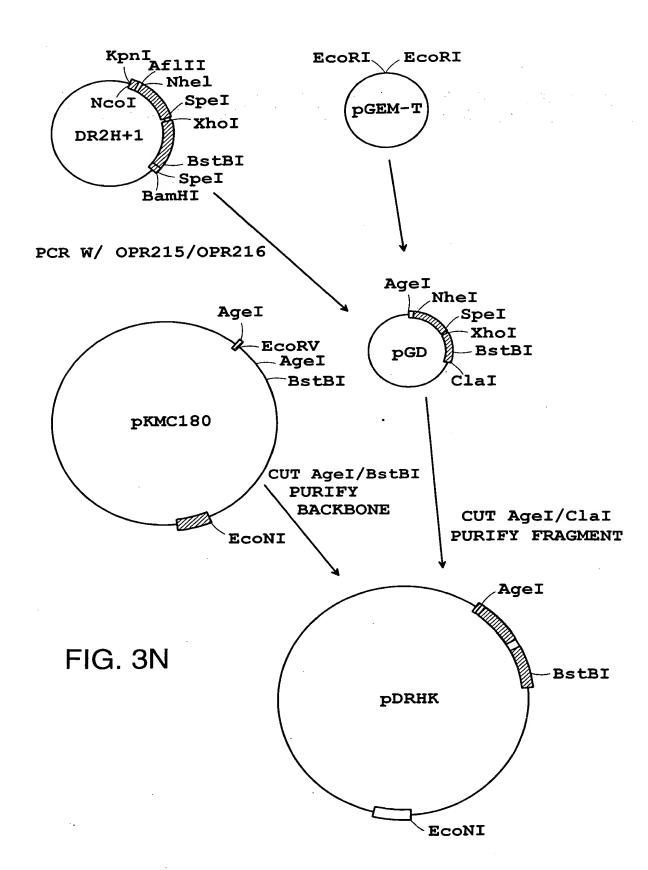
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	:		74.DI		M-Cy		lgG C <sub>L</sub>					7.6.40 0				lgG C <sub>L</sub>
			E		IA <sup>d</sup> αTM-Cy					出				出		
	18 <sup>d</sup> a1-a2		$1A^{d}\alpha^{1-\alpha^{2}}$		18 <sup>d</sup> a1-a2		IA <sup>d</sup> α1-α2	•		$DRAI_{\alpha}1{\alpha}2$		, EE		DRAI <sub>a</sub> 1- <sub>a</sub> 2		DRAlα1-α2
	7		7		[7]		[7]	•		71		DRAI <sub>α</sub> 1- <sub>α</sub> 2		7		7
SION	1A <sup>d</sup> p1-p2	G FUSION	1A <sup>d</sup> 91-P2	FUSION	1A <sup>d</sup> 31-32	FUSION	1A <sup>d</sup> β1-β2		G FUSION	DRB1*1501 β1-β2	FUSION	DRB1*1501 β1	TIDE FUSION	DRB1*1501 β1 MOD β2	FUSION	DRB1*1501 β1-β2
sc-1A <sup>d</sup> /PEPTIDE FUSION	dSP PEP L1	sc-1A <sup>d</sup> /PEPTIDE-TAG FUSION	aSP PEP L1	sc-1A <sup>d</sup> TM/PEPTIDE FUSION	dSP PEP L1	sc-1A <sup>d</sup> /PEPTIDE-C <sub>L</sub> FUSION	dSP PEP L1		sc-DR2/PEPTIDE-TAG FUSION	d SP PEP L1	sc-DR2 <sub>-B</sub> 2/PEPTIDE FUSION	dSP PEP L1	sc-DR2 MOD R2/PEPTIDE FUSION	dSP PEP L1	sc-DR2/PEPTIDE-C <sub>L</sub> FUSION	aSP PEP L1

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APPROVED C.G. FIG.
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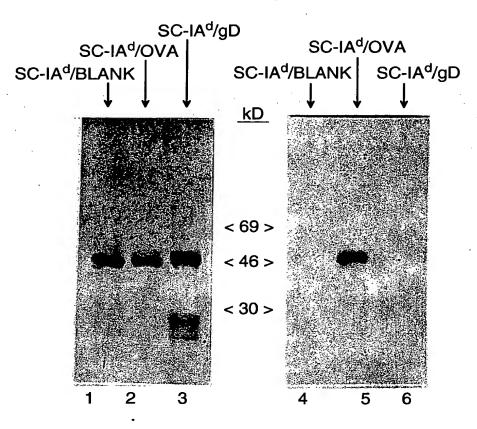


FIG. 5A

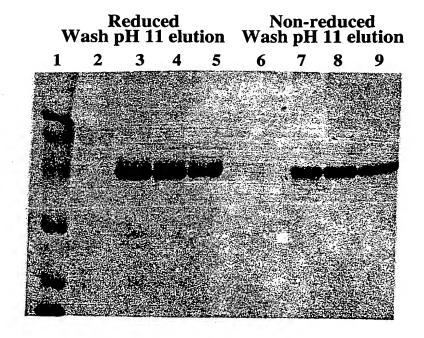
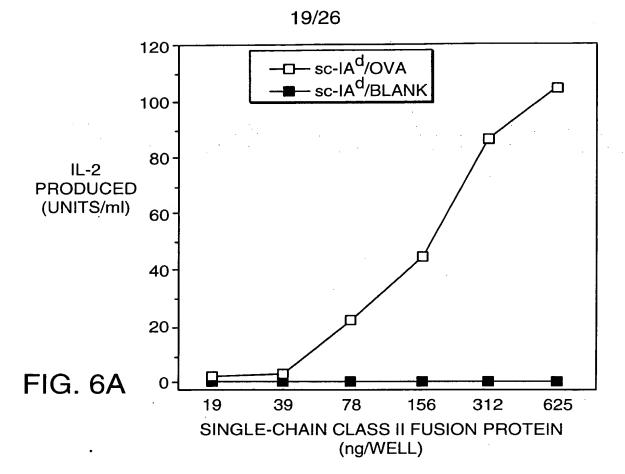
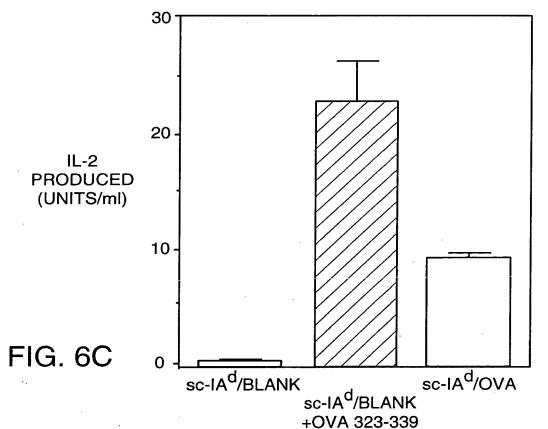


FIG. 5B







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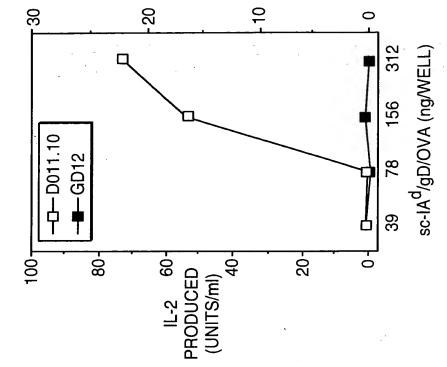
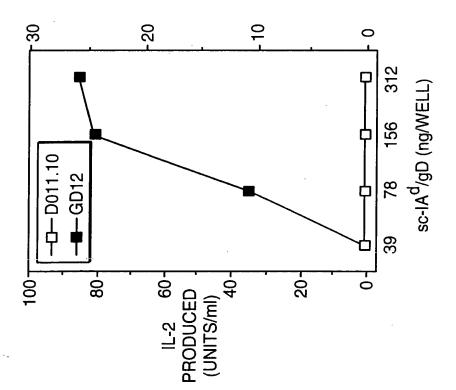




FIG. 6B-1



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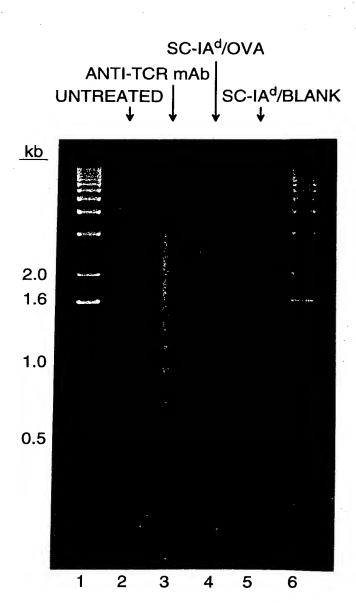


FIG. 7

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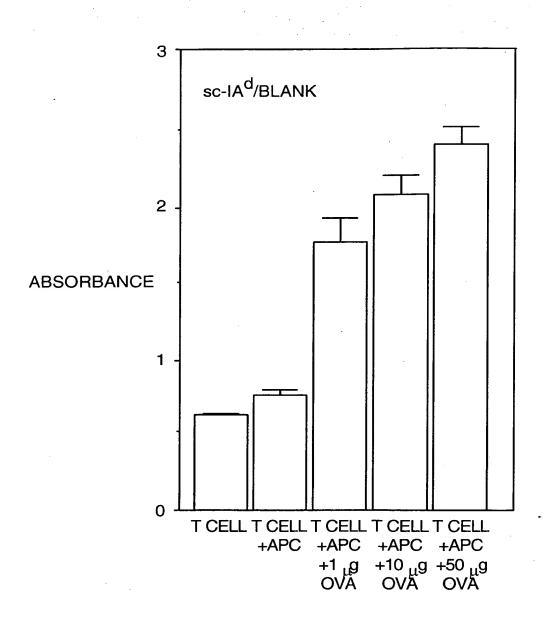


FIG. 8A

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9. FIG.

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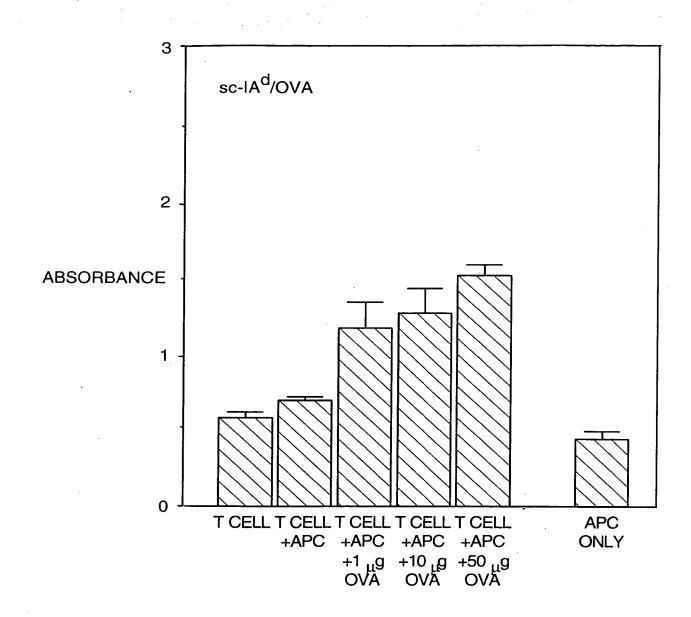


FIG. 8B

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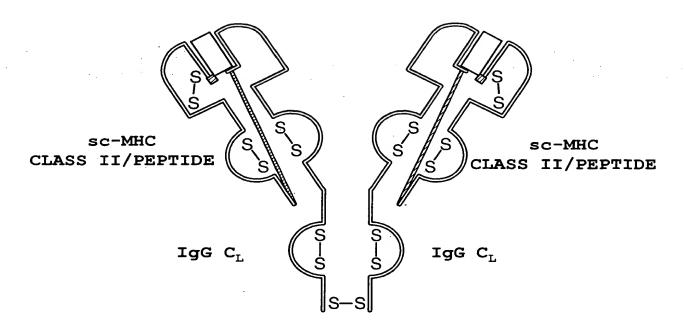


FIG. 9A

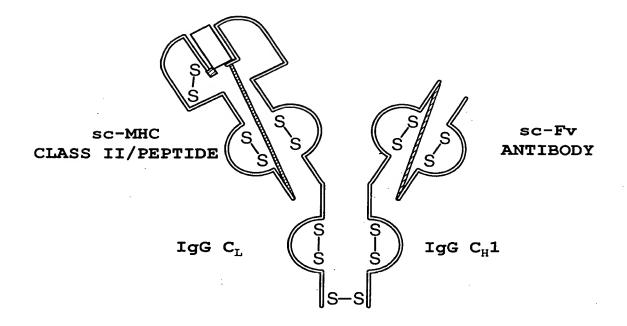
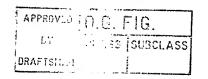


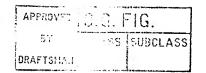
FIG. 9B

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	SEQ No.
CCACCATG	1
OPR132 5'-CCCCCAAGCTTCCCGGGCCACCATGGCTCTGCAGATCCCCAGC-3'	2
OPR133 5'-CCCCCACTTAAGGTCCTTGGGCTGCTCAGCACC-3'	3
OPR102 5'-GGGGGGCCATGGCCGGAAACTCCGAAAGGCATTTCG-3'	4
OPR104 5'-GCGGCGACTAGTCCACTCCACAGTGATGGGGC-3'	5
OPR100 5'-GGGGGGCCATGGCCGAAGACGACATTGAGGCCGAC-3'	6
OPR101 5'-GCGCGACTAGTCCAGTGTTTCAGAACCGGCTC-3'.	7
IADF100 5'-GGGGGGGATATCTCTCAGGCTGTTCACGCTG-3'	8
IADB100 5'-GGGGGGTTCGAAAAGTGTACTTACGGGGGGCTGGAATCTCAGGTTC-3'	9
OPR145 5'-GGGGGGCTCGAGTATCAAAGAAGAACATGTGATCATC-3'	10
DR1A-B 5'-GCGCCGGATCCGTTCTCTGTAGTCTCTGGGAGAGG-3'	11
OPR203000 5'-GATCCGAGGAAGAAGAGTACATGCCCATGGAACCCGGGTGAG-3'	12
OPR203001 5'-AATTCTCACCCGGGTTCCATCGGCATGTACTCTTCTTCCTCG-3'	13
DR2B-F 5'-CCCCCGCTAGCGGAGGGGGGGAAGCGGCGAGGGGGGGACA CCCGACCACGTTTCCTGTGGCAGCCTAAGAGG-3'	14
DR2B-B2 5'-CCCCCGAATTCCCCACTAGTCCATTCCACTGTGAGAGGGCTTGTC AC-3'	15
MB201806 5'-GGGGGGCCATGGCCTACGACGAGAACCCCGTGGTG-3'	16
MB175959 5'-GGGGGGACTAGTTCGCCGCTGCACTGTGAAGC-3'	17
MB201807 5'-GGGGGGTATGCATACGACGAGAACCCCGTGGTG-3'	18
MB201808 5'-GGGGGGACTAGTTCCACTTCGAGGAACTGTTTCC-3'	19
MB201809 5'-CCTCCTGGTCTCCTCTGAGTGG-3'	20
MB201810 5'-CCACTCACAGAGGAGCCAGGAGG-3'	21
OPR 215 5'-CCC CCC ACC GGT TAC GAC AAC CCC GTG GTG-3'	22
OPR 216 CCC CCC ATC GAT AAG TGT ACT TAC GTG GGA GAG GGC TTG GAG CAT-3	3' 23

FIG. 10A



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OVA 323-399 ISQAVHAAHAEINEAGR	26
Gd-246-261 APYSTLLPPELSETP	27
MBP (83-102) Y83 YDENPVVHFFKNIVTPRTPP	28
14 amino acid linker TSGGGGSGGGSSS	29
EE TAG EEEEYMPMEPG	30
24 amino acid linker TSGGGGSGGGSGGGGSSS	31
MBP (S4-102) DENPVVHFFKNIVTPRTPP	32

FIG. 10B